

Claims

Sub a-17 1. A recording and/or reproducing apparatus comprising:

a reproducing unit for reading out data from a first recording medium at a transmission rate higher than a standard readout rate of said first recording medium;

a storage unit for storing data read out from said first reproducing unit;

a recording unit for storing data read out from said storage unit in a second recording medium; and

a controlling unit for controlling the operation of said reproducing unit, storage unit and the recording unit, said controlling unit causing the data from said reproducing unit to be written in said storage unit at a transmission rate higher than the standard readout rate of said second recording medium, said controlling unit causing the data to be read out from said storage unit at a transmission rate equal to the standard recording rate for said second recording medium to route the read-out data to said recording unit to cause the routed read-out data to be recorded on said second recording medium.

2. The recording and/or reproducing apparatus according to claim 1 wherein said controlling unit causes the data to be read out from said storage unit and routed to said recording unit when the reproducing operation of said first recording medium by said reproducing unit comes to a close, said controlling unit causing the read-out data to be recorded on said second recording medium by said recording unit.

3. The recording and/or reproducing apparatus according to claim 1 wherein said

controlling unit causes data to be read out from said storage unit when the reproducing operation for said first recording medium by said reproducing unit comes to a close, said controlling unit causing the read-out data to be recorded on said second recording medium.

4. The recording and/or reproducing apparatus according to claim 3 wherein said controlling unit halts the recording operation by said second recording unit if said second recording medium is not loaded on said recording unit when the time is said starting time.

5. The recording and/or reproducing apparatus according to claim 1 wherein said storage unit includes a data processing unit for encoding data from said reproducing unit when writing data read out from said reproducing unit and for decoding data when reading out the data and a data storage unit in which is written data from said data processing unit.

6. The recording and/or reproducing apparatus according to claim 5 wherein said data processing unit is controlled by said controlling so that data read out from said data storage unit is decoded and read out at a transmission rate equal to the standard recording rate for said second recording medium.

7. A recording and/or reproducing apparatus comprising:

a reproducing unit including a decoding processing unit for decoding data read out from said first recording medium at a transmission rate faster than the standard readout rate for said first recording medium to output a playback signal; and a first

controlling unit for controlling said decoding processing unit;

a storage unit for storing data read out from said first recording medium;

a recording unit including an encoding unit for encoding data read out from said storage unit; and a second controlling unit for controlling said encoding unit; said recording unit storing output data from said encoding unit in a second recording medium; and

a third controlling unit for supplying a control signal to said first controlling unit and to said second controlling unit to control the operation of said reproducing unit and the operation of said recording unit; said third controlling unit supplying a control signal to said storage unit to read out data from said storage unit at a transmission rate equal to a standard recording rate of said second recording medium, said third controlling unit sending a control signal to said second controlling unit to cause the supplied data to be recorded on said second recording medium.

8. The recording and/or reproducing apparatus according to claim 7 wherein said third controlling unit causes data to be read out from said storage unit after end of the reproducing operation of said first recording medium by said reproducing unit to route the read-out data to said recording unit; the read-out data being recorded by said recording unit on said second recording medium.

9. The recording and/or reproducing apparatus according to claim 7 wherein, if the data recording start time point is previously set in said second recording medium, said third controlling unit causes data to be read out from said storage unit when the time

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is the above-mentioned start time point to route the read-out data to said recording unit to cause the read-out data to be recorded on said second recording medium.

10. The recording and/or reproducing apparatus according to claim 7 wherein, if said second recording medium is not loaded on said recording unit when the time is the above-mentioned start time point, said third controlling unit halts the recording operation of said second recording unit.

11. The recording and/or reproducing apparatus according to claim 7 wherein said storage unit includes a data processing unit for applying further encoding for storing data from said reproducing unit in said storage unit when writing data read out from said reproducing unit and for applying further decoding, as a counterpart of said encoding, when reading out the data, and a data storage unit for writing data from said data processing unit.

12. The recording and/or reproducing apparatus according to claim 11 wherein said processing unit is controlled by said controlling unit in such a manner that data read out from said data storage unit will be processed with said further decoding so that the data will be read out at a transmission rate equal to the standard recording rate of said second recording medium.

13. A recording and/or reproducing apparatus comprising:

a reproducing unit for reading out data from a first recording medium at a transmission rate higher than a standard readout rate of said first recording medium;
a data storage unit for storing data read out from said first reproducing unit;

a recording unit for storing data read out from said storage unit in a second recording medium; and

a controlling unit for controlling the operation of said reproducing unit, data storage unit and the recording unit; said controlling unit causing data to be read out from said data storage unit and supplied to said recording unit for recording thereon after the entire data read out from the first recording medium is stored in said data storage unit.

14. The recording and/or reproducing apparatus according to claim 13 wherein said controlling unit causes the data to be read out from said storage unit and routed to said recording unit when the reproducing operation of said first recording medium by said reproducing unit comes to a close, said controlling unit causing the read-out data to be recorded on said second recording medium by said recording unit.

15. The recording and/or reproducing apparatus according to claim 13 wherein said controlling unit causes data to be read out from said storage unit when the reproducing operation for said first recording medium by said reproducing unit comes to a close, said controlling unit causing the read-out data to be recorded on said second recording medium.

16. The recording and/or reproducing apparatus according to claim 15 wherein if, when the time is the above-mentioned starting time, the second recording medium is not loaded on said recording unit, said controlling unit halts the recording operation of said second recording unit.

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17. The recording and/or reproducing apparatus according to claim 13 wherein said storage unit includes a data processing unit for encoding data from said reproducing unit when writing data read out from said reproducing unit and for decoding data when reading out the data and a data storage unit in which is written data from said data processing unit.

18. The recording and/or reproducing apparatus according to claim 17 wherein said data processing unit is controlled by said controlling unit so that data read out from said data storage unit is decoded and read out at a transmission rate equal to the standard recording rate for said second recording medium.

19. A recording and/or reproducing apparatus comprising:

a reproducing unit for reading out data from a first recording medium at a transmission rate faster than the standard readout rate of said first recording medium;

a data storage unit for storing data read out from said data storage unit;

a recording unit for recording the data read out from the data storage unit;

and

a controlling unit for controlling said reproducing unit, data storage unit and the recording unit, said controlling unit operating so that, if data recording starting time point is previously set on said second recording medium, data is read out from said data storage unit and routed to said recording unit when the time is the above-mentioned recording start time, with the read-out data being then recorded on said second recording medium.

20. The recording and/or reproducing apparatus according to claim 19 wherein, if said second recording medium is not loaded on said recording unit when the time is the above-mentioned start time point, said controlling unit halts the recording operation of said second recording unit.

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